


	SYM	REVISION	BY	DATE
C. JENNICKENS, PE DESIGNED BY				APRIL 2017 DATE
G. LESOFSKI DRAWN BY				15207 PROJECT NO.
K. JENSEN, PE CHECKED BY				C-101 FILE

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E101	ELECTRICAL PLAN

**Prepared For:** Montana Fish, Wildlife and Parks

**Prepared By:** Robert Peccia & Associates, Inc.  
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PROJECT TITLE  
**Jocho River Trout Hatchery  
Raceway Replacement**  
*Arlee, Montana*

[illegible]


















SHEET

**C101**

OF

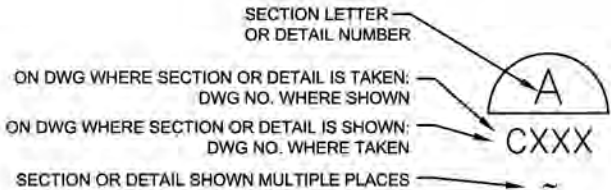


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LEGEND	
DESCRIPTION	
TELEPHONE	
UNDERGROUND ELECTRICAL	
OVERHEAD POWER	
GAS	
WATER	
GAS METER	
VALVES	
STREET LIGHT	
POWER POLE	
ELECTRICAL SERVICE METER	
TRANSFORMER	
TELEPHONE PEDESTAL	
TELEPHONE BOX	
YARD HYDRANT	
WELL	
WATER VAULT/MANHOLE	
CONTROL POINT	

1. GENERAL NOTES, ABBREVIATIONS, AND LEGEND FOR SHEETS INVOLVING CIVIL WORK ARE SHOWN ON THIS SHEET. THIS IS A STANDARD LEGEND SHEET, THEREFORE SOME SYMBOLS AND ABBREVIATIONS MAY NOT APPEAR ON THIS SHEET AND SOME MAY NOT BE UTILIZED ON THIS PROJECT. CONTACT THE ENGINEER FOR ABBREVIATIONS AND SYMBOLS NOT LISTED.
2. UNLESS SPECIFICALLY SHOWN ON THESE DRAWINGS, ALL WORK WILL CONFORM TO MPWSS, LATEST EDITION.
3. WITH 48 HOURS NOTICE, BASE LINE POINTS OR OTHER CRITICAL HORIZONTAL CONTROL MAY BE OBTAINED FROM THE ENGINEER IN A NORTHING AND EASTING FORMAT CORRESPONDING WITH CONTROL POINTS. AUTOCAD BASE MAP WILL BE PROVIDED TO CONTRACTOR TO ASSIST IN LOCATING PERTINENT POINTS FOR CONSTRUCTION.
4. EXISTING UNDERGROUND INSTALLATIONS AND PRIVATE UTILITIES SHOWN ARE FROM THE BEST INFORMATION AVAILABLE. ACCURACY OF SUCH INFORMATION IS NOT GUARANTEED AND SHALL BE VERIFIED BY THE CONTRACTOR. SERVICE LINES (IRRIGATION, DATA, WATER, POWER, COMMUNICATIONS, GAS, STEAM, AND SEWER) MAY NOT BE STRAIGHT (DEPTH NOT EVEN) OR AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL NOTIFY EACH UTILITY COMPANY BEFORE EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY LOCATES.
5. CONTRACTOR SHALL FIELD VERIFY LINE AND GRADE OF EXISTING CONNECTIONS WELL IN ADVANCE OF MAKING THE CONNECTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS REQUIRED FOR THEIR CONSTRUCTION ACTIVITIES.
7. STORM DRAIN, SANITARY SEWER, AND WATER LINES SHALL BE SLOPED AT A UNIFORM GRADE BETWEEN ELEVATIONS SHOWN.
8. ALL EXISTING UTILITIES THAT ARE TO BE REMOVED SHALL BE CAPPED AND PLUGGED AT THEIR CUT TERMINATION POINTS.
9. FIRE DEPARTMENT ACCESS MUST BE PROVIDED TO ALL BUILDINGS DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY FITTINGS, COUPLINGS, AND SPOOL PIECES FOR CONNECTING NEW UTILITIES TO EXISTING UTILITIES. THESE PLANS MAY NOT SHOW ALL REQUIRED COMPONENTS FOR MAKING THE CONNECTIONS.

ENLARGED FOR CLARITY



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15207  
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G. LESOFSKI

C-102  
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PROJECT TITLE

**Jocko River Trout Hatchery  
Raceway Replacement**

*Arlee, Montana*

APRIL 2017  
DESIGNED BY  
G. JENNESKENS, PE

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PROJECT NO.  
G. LESOFSKI

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SHEET TITLE

**NOTES, LEGEND  
AND  
ABBREVIATIONS**

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DESIGNED BY  
G. JENNESKENS, PE

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SHEET

**C102**

OF

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G. LESOFSKI

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K. JENSEN, PE	C-103
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PROJECT TITLE  
**Jocko River Trout Hatchery  
Raceway Replacement**  
Arlee, Montana

SHEET TITLE  
**DEMOLITION PLAN**

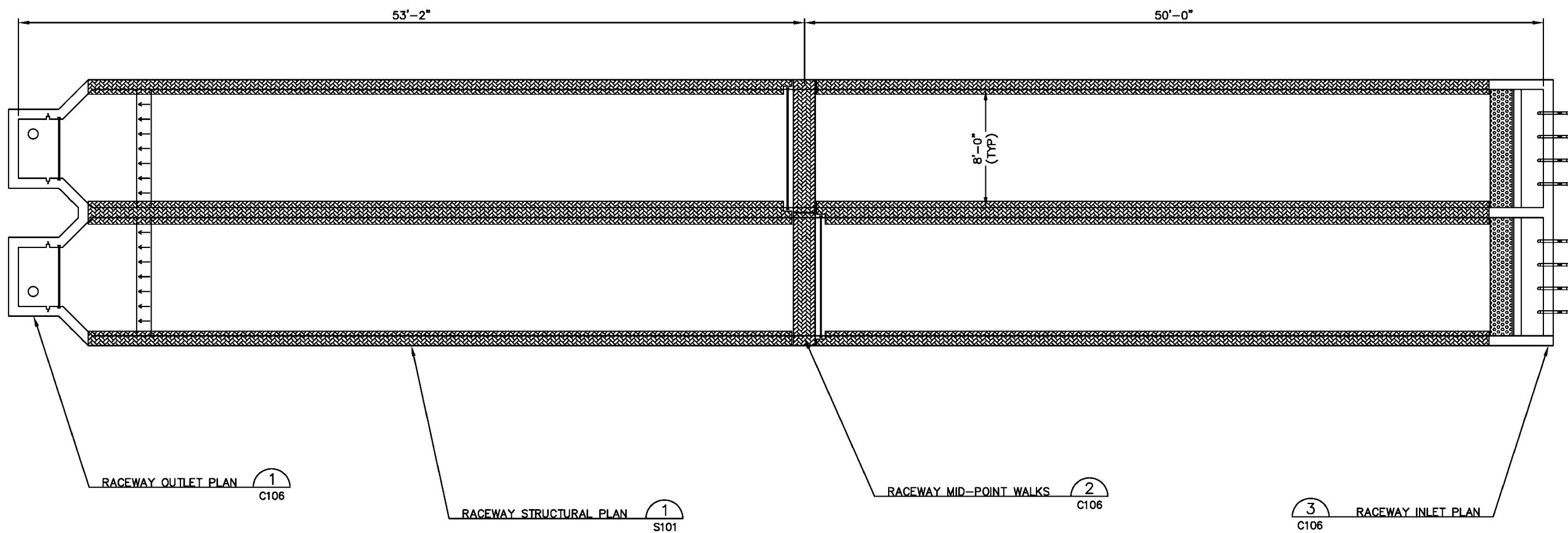
SHEET  
**C103**  
OF







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**NEW RACEWAYS PLAN** 1  
C104

SCALE: 1"=4'-0"

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C-105  
FILE

PROJECT TITLE

**Jocko River Trout Hatchery  
Raceway Replacement**  
Arlee, Montana

SHEET TITLE

**NEW RACEWAYS**

SHEET

**C105**

OF



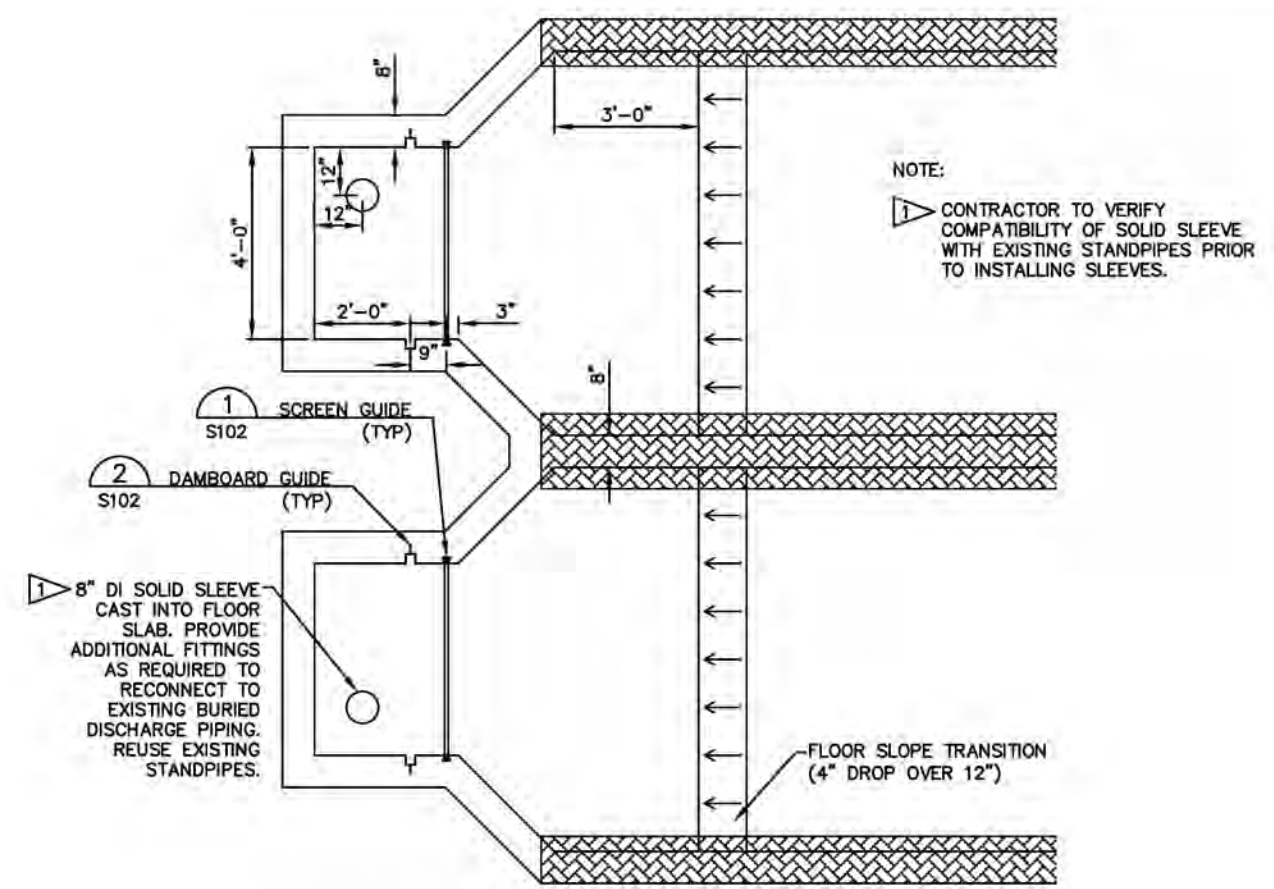
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G. LESOFSKI	15207	K. JENSEN, PE	C-106
			FILE

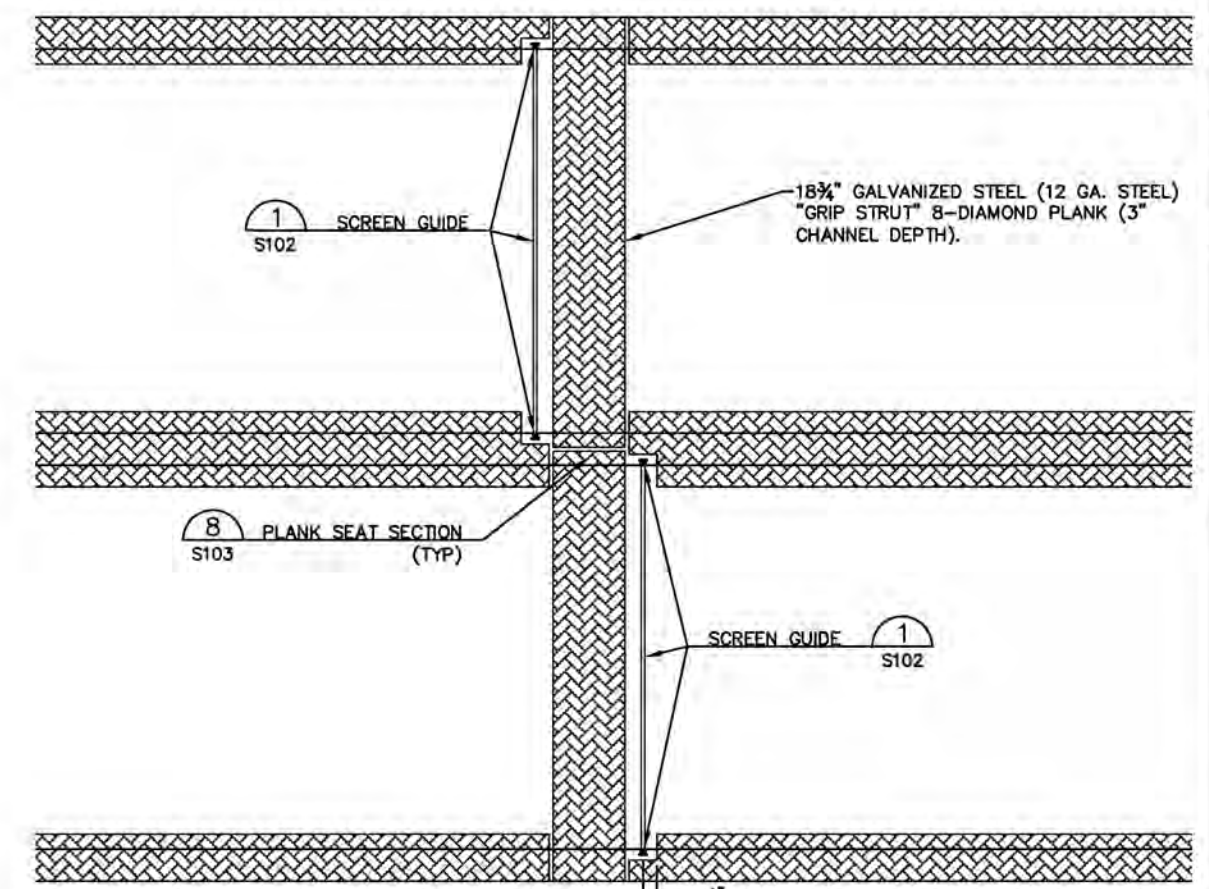
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Jocko River Trout Hatchery  
Raceway Replacement  
Arlee, Montana

**SHEET TITLE**  
**RACEWAY DETAILS**

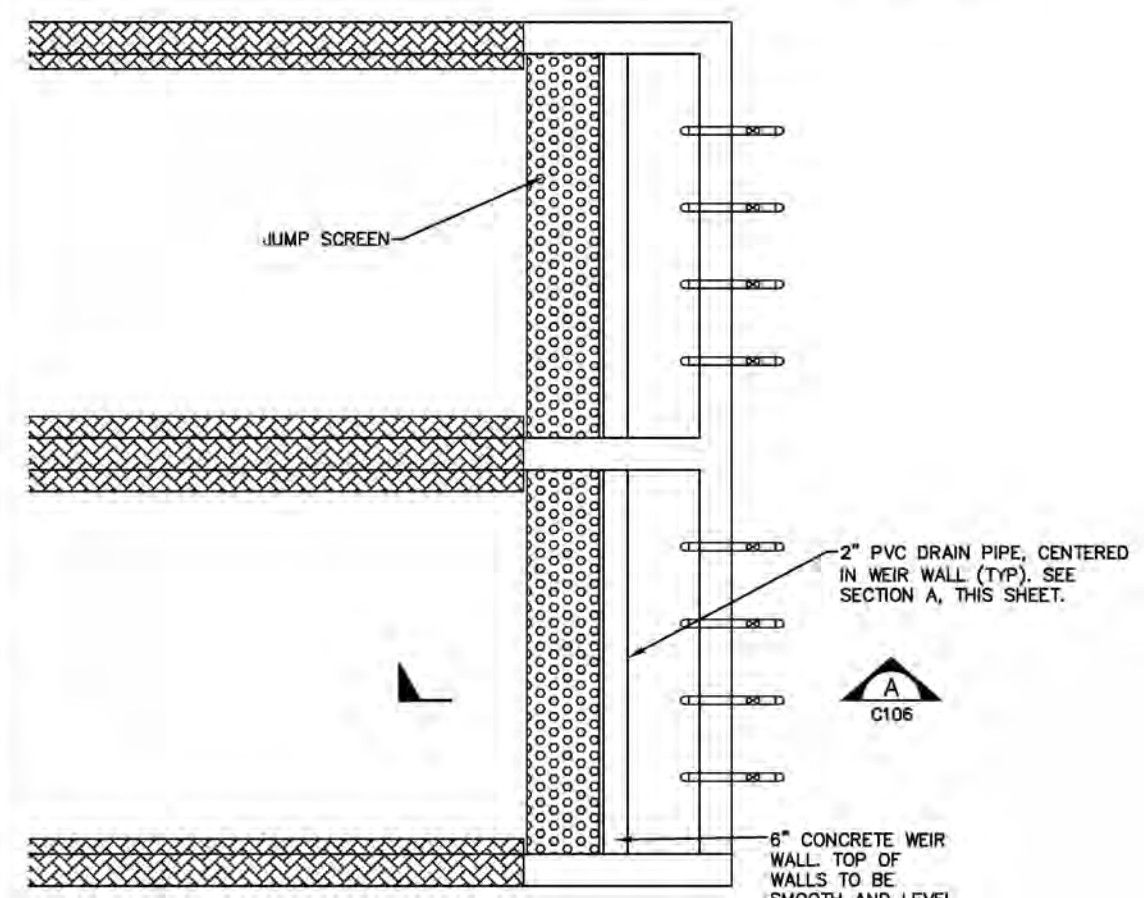
**SHEET**  
**C106**  
OF



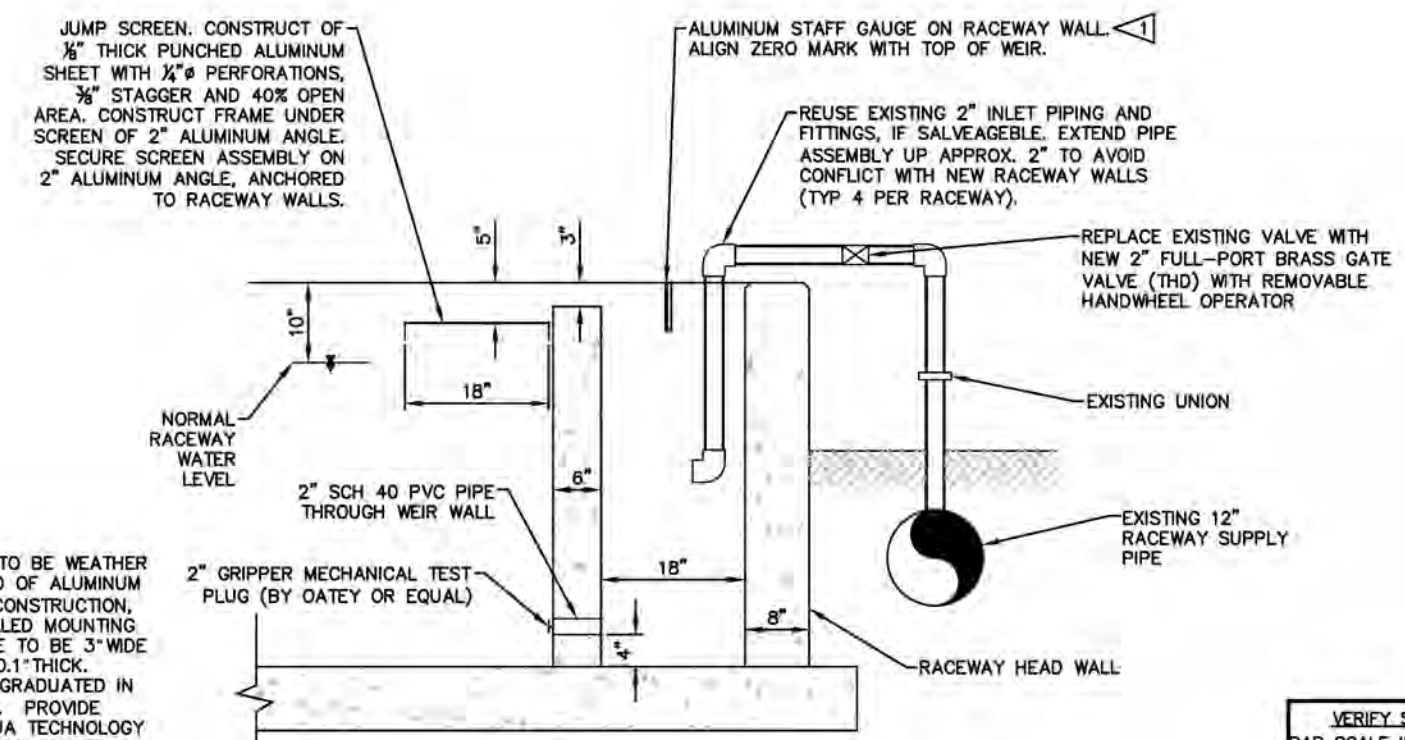
**RACEWAY OUTLET PLAN**  
SCALE: 1/4"=1'-0"  
C105, S101, S201



**RACEWAY MID-POINT WALKS**  
SCALE: 1/4"=1'-0"  
C105



**RACEWAY INLET PLAN**  
SCALE: 1/4"=1'-0"  
C105



**SECTION**  
SCALE: 1/2"=1'-0"  
C106

**NOTE:**  
1 STAFF GAUGE TO BE WEATHER RESISTANT AND OF ALUMINUM (OR SIMILAR) CONSTRUCTION, WITH PRE-DRILLED MOUNTING HOLES. GAUGE TO BE 3" WIDE AND MINIMUM 0.1" THICK. GAUGE TO BE GRADUATED IN 1/4" INCREMENTS. PROVIDE GAUGE BY AQUA TECHNOLOGY GROUP, OR EQUAL. FASTEN GAUGE TO RACEWAY WALL WITH CORROSION-RESISTANT 2" LONG CONCRETE ANCHORS OR SCREWS.

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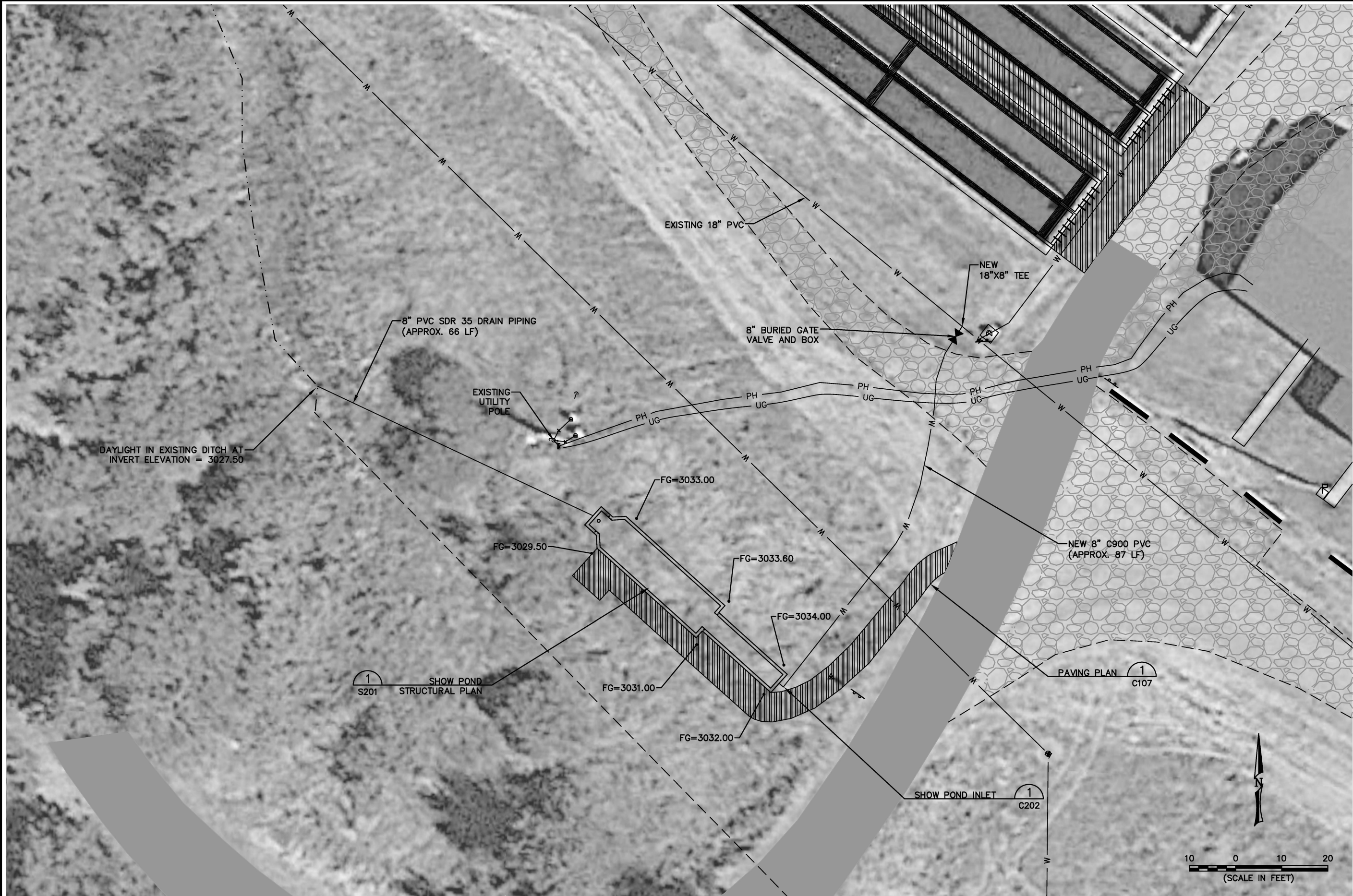
F:\alldev\15207 - Jocko River Hatchery\Jocko - C107\CAAD\Sheets\C-107.dwg Apr 24, 2017



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REVISION		DRAWN BY	G. LESOFSKI
SYM		CHECKED BY	K. JENSEN, PE
		PROJECT NO.	15207
		FILE	C-107
PROJECT TITLE		Jocko River Trout Hatchery Raceway Replacement Arlee, Montana	
SHEET TITLE		PAVING PLAN	
SHEET		C107	
		OF	



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**SHOW POND PLAN** 1  
C104

**ADDITIVE ALTERNATE #1**

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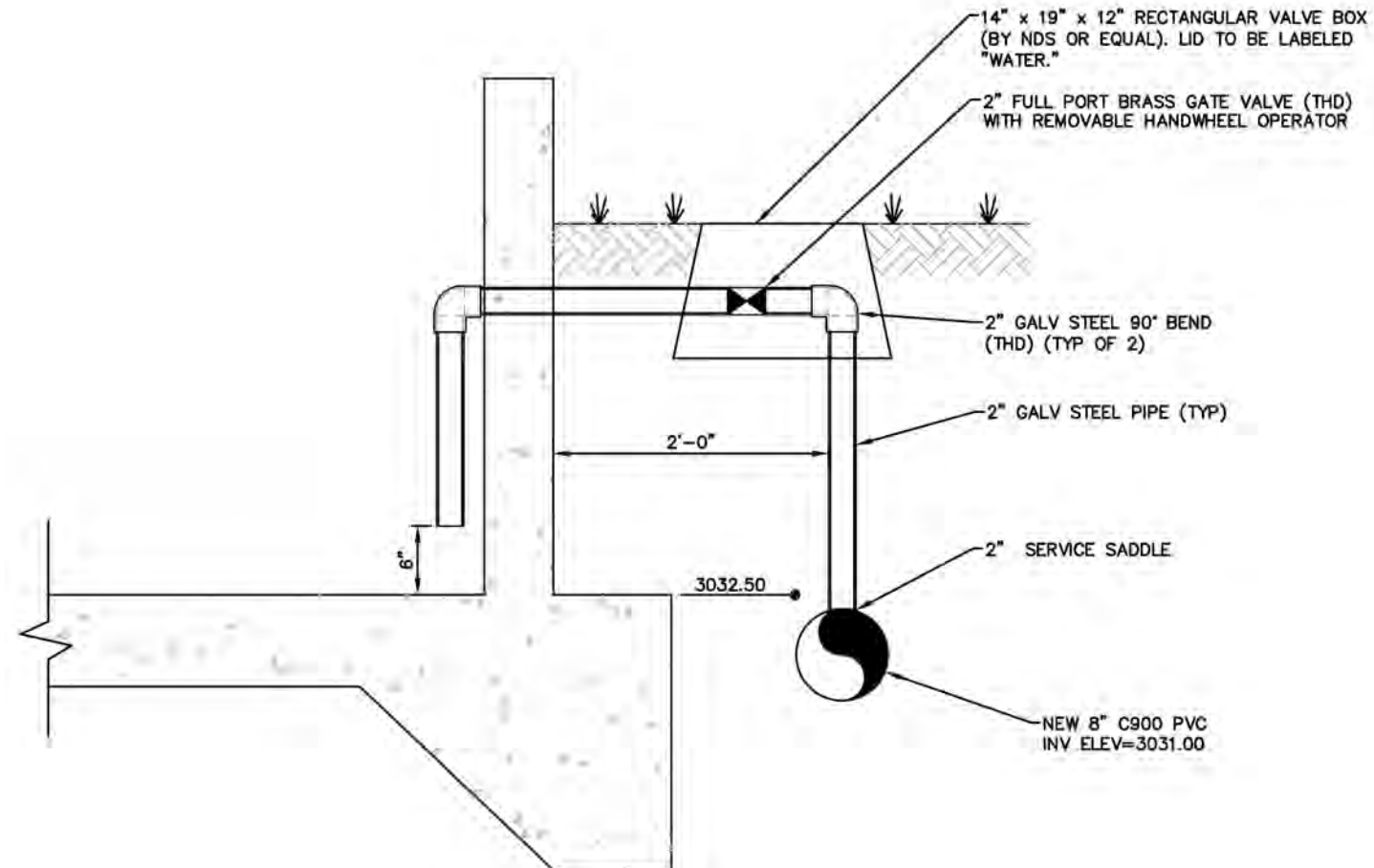
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PROJECT NO.	
CHECKED BY	C-201
FILE	

PROJECT TITLE  
**Jocko River Trout Hatchery  
Raceway Replacement**  
Arlee, Montana

SHEET TITLE  
**SHOW POND  
PLAN**

SHEET  
**C201**  
OF





**SHOW POND INLET**  
 SCALE: NONE

1  
C201

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 PROJECT NO.  
 C-202  
 FILE

PROJECT TITLE

**Jocko River Trout Hatchery  
 Raceway Replacement**  
*Arlee, Montana*

SHEET TITLE

**SHOW POND  
 DETAILS**

SHEET

**C202**  
 OF

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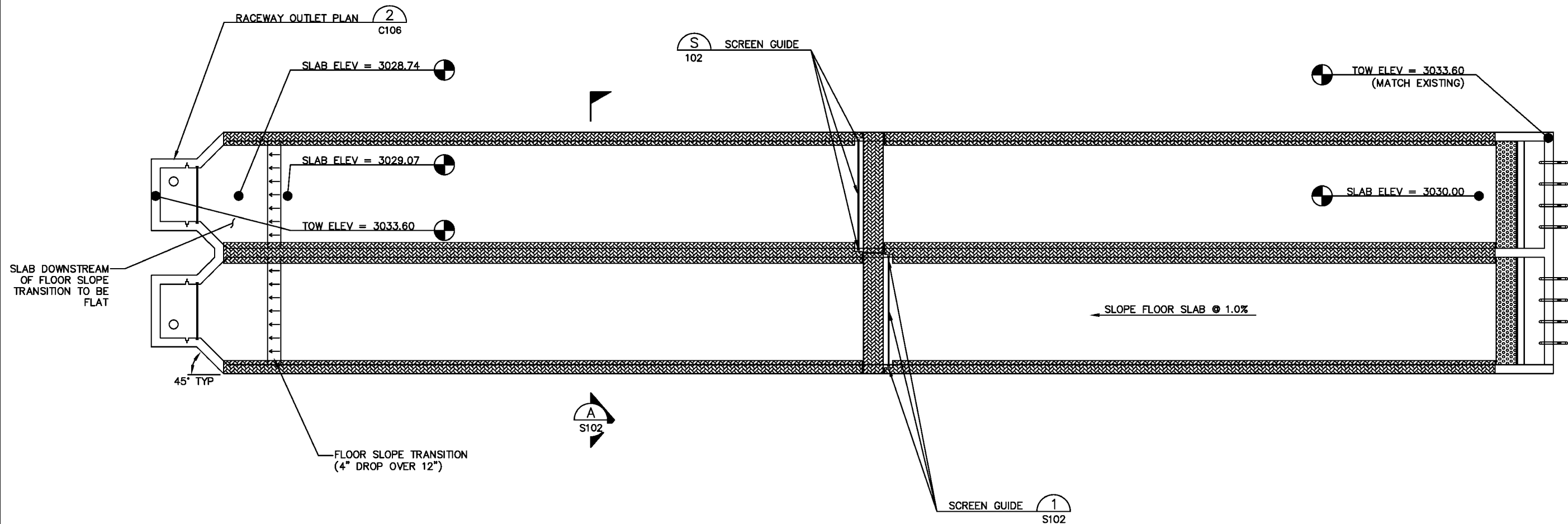
PROJECT TITLE  
**Jocko River Trout Hatchery  
Raceway Replacement**  
Arlee, Montana

SHEET TITLE  
**RACEWAY  
STRUCTURAL  
PLAN**

SHEET  
**S101**  
OF

**NOTES:**

1. ALL RACEWAY CONCRETE TO BE COLORED USING AN INTEGRAL COLORING ADMIXTURE. USE DAVIS COLORS POWDER PIGMENT "OMAHA TAN" (#5084) OR SOLOMON COLORS "CANVAS" (#306), DOSED AT ONE POUND PER SACK OF CEMENT. BOTH PRODUCTS ARE AVAILABLE FROM MACON SUPPLY, INC.



**RACEWAY STRUCTURAL PLAN**

SCALE: 1"=4'-0"

1  
C105

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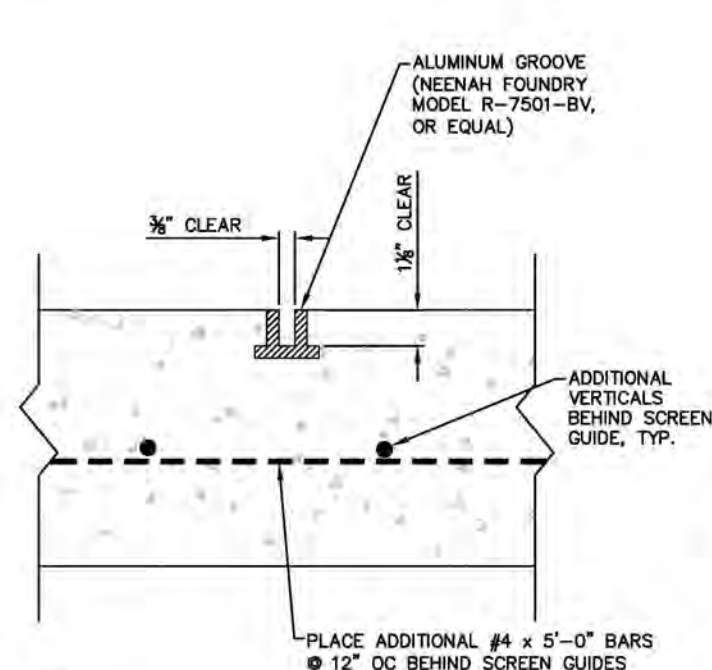
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K. JENSEN, PE	S-102
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PROJECT TITLE  
**Jocko River Trout Hatchery  
Raceway Replacement**  
*Arlee, Montana*

# RACEWAY STRUCTURAL DETAILS

SHEET  
**S102**  
OF

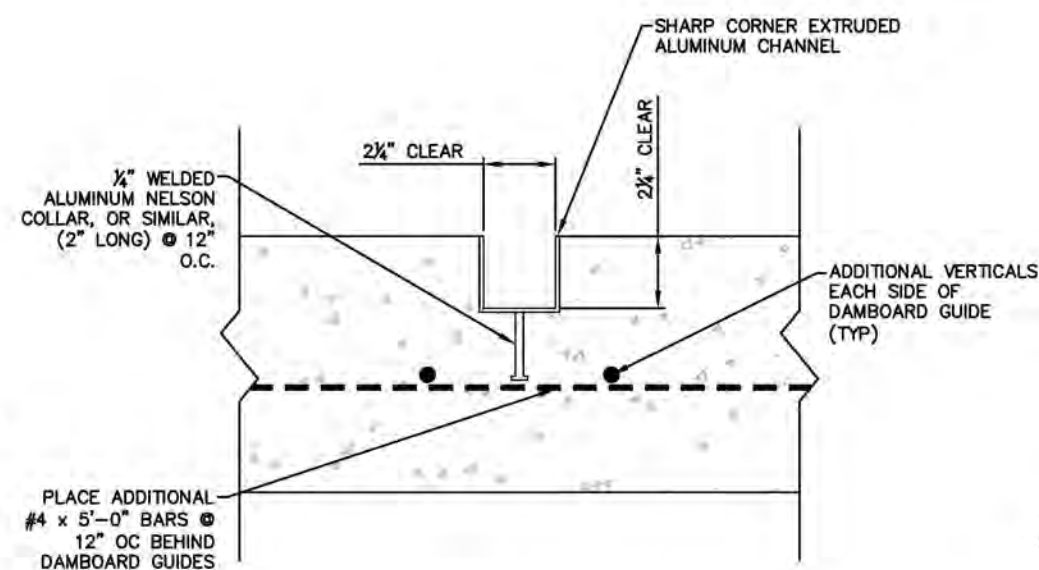


NOTES:

1. CONTRACTOR TO PROVIDE AND INSTALL GROOVES.  
SCREENS TO BE PROVIDED BY OWNER.
2. GROOVES TO BE INSTALLED IN WALLS (FULL-HEIGHT)  
AND IN FLOOR SLAB.

## SCREEN GUIDE

SCALE: NONE C106.S101.S201

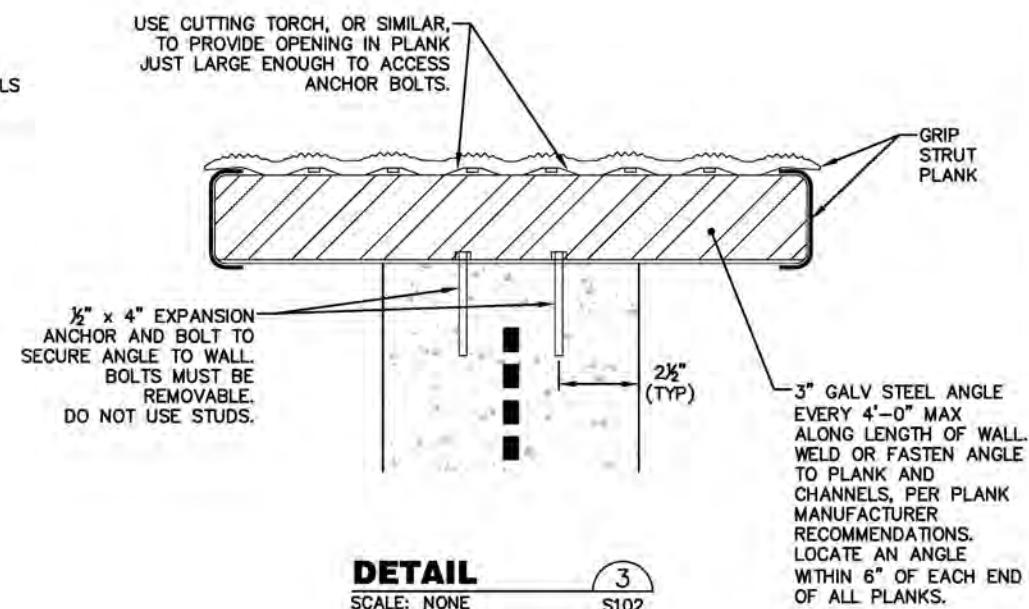


NOTES:

1. DAMBOARDS TO BE PROVIDED AND INSTALLED BY OWNER.
2. COAT BACK SIDES OF ALUMINUM CHANNEL WITH COAL TAR EPOXY.

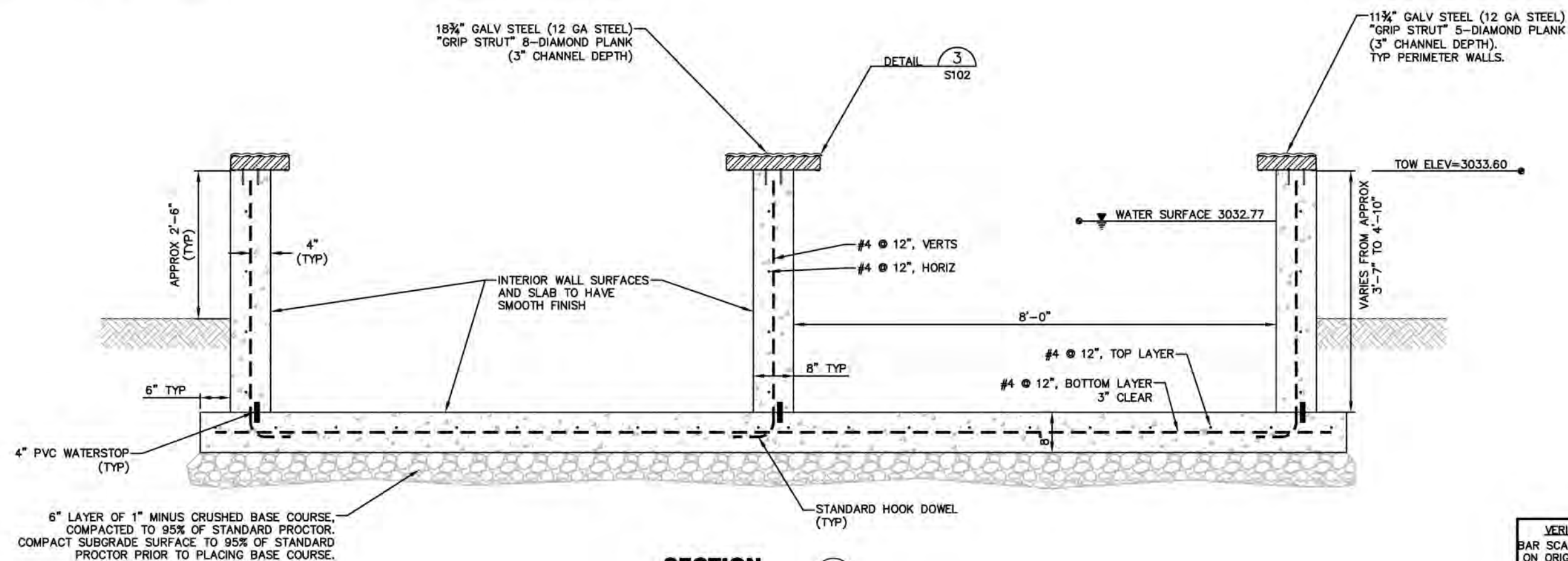
## DAMBOARD GUIDE

SCALE: NONE C106.S101.S201




## DETAIL

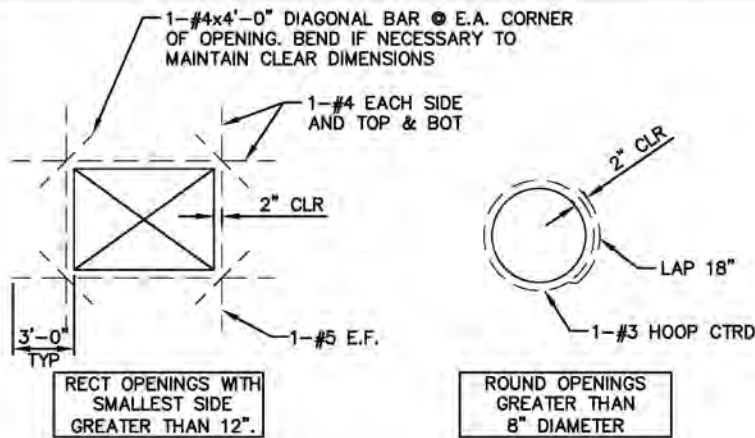
SCALE: NONE	S102
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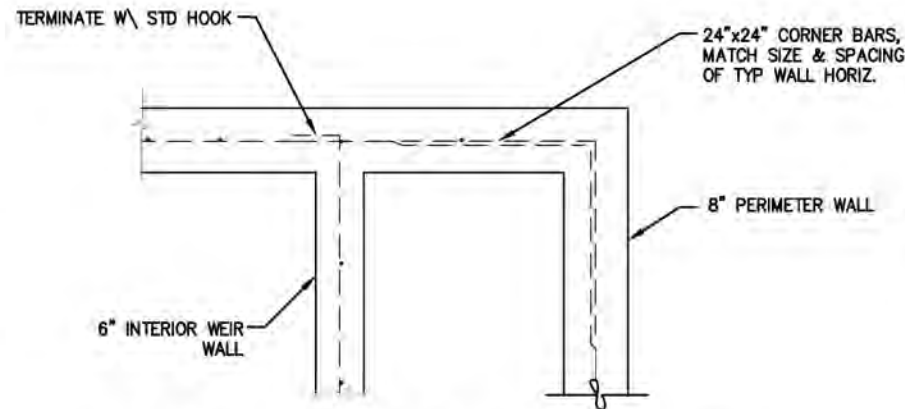
## SECTION

SCALE: 1/2"=1'-0" S101

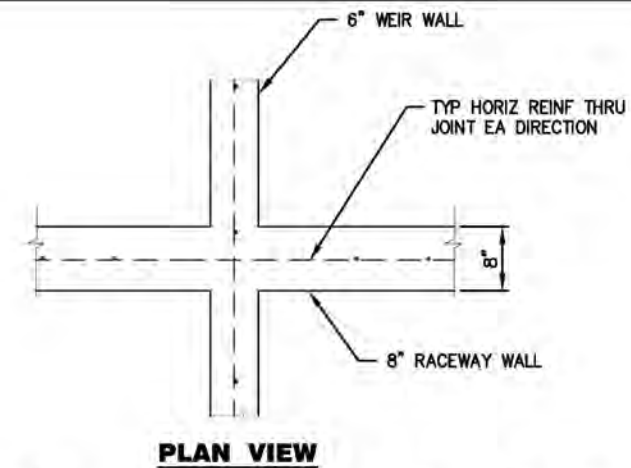
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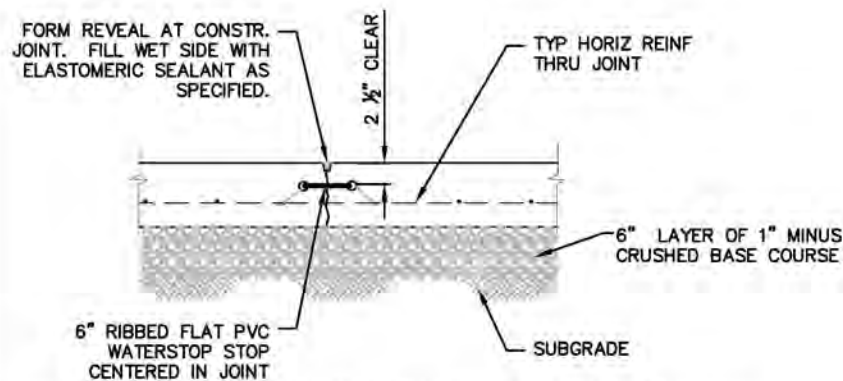
**OPENING REINF DETAIL** (1)  
SCALE: NONE



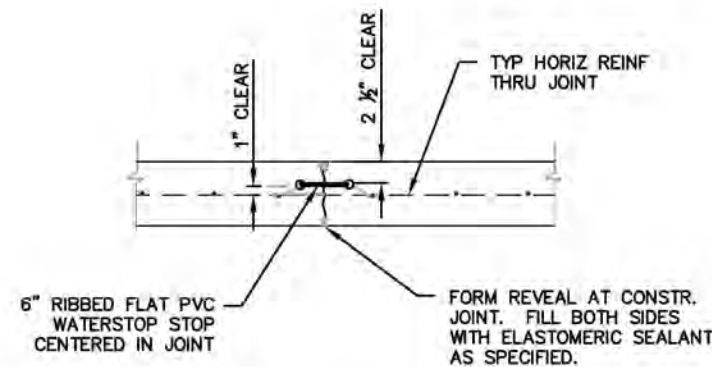
**RACEWAY WALL REINF DETAIL** (2)  
SCALE: NONE



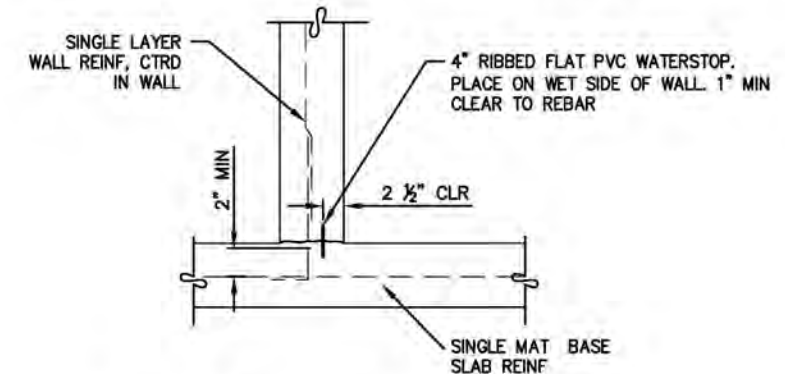
**RACEWAY WALL REINF DETAIL** (3)  
SCALE: NONE



**BASE SLAB CONSTRUCTION JOINT** (4)  
SCALE: NONE



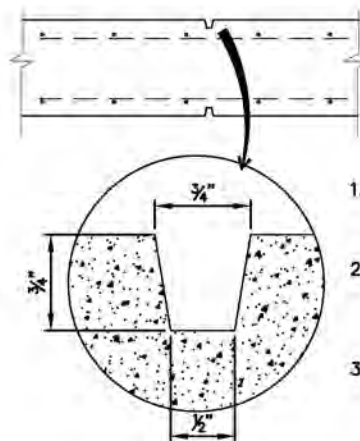
**CONC WALL CONSTRUCTION JOINT** (5)  
SCALE: NONE



**WALL TO SLAB JOINT** (6)  
SCALE: NONE

**NOTES:**

1. DETAILS ON THIS SHEET APPLY TO THE NEW RACEWAYS AND THE NEW SHOW POND.
2. ALL WALL AND SLAB CONSTRUCTION JOINTS REQUIRE WATERSTOPS. SEE WATERSTOP DETAILS ON THIS SHEET.
3. CONSTRUCTION JOINT LOCATIONS ARE NOT SHOWN AND SHALL BE LOCATED BY CONTRACTOR AND SUBJECT TO ENGINEER'S APPROVAL.
4. ALL EXPOSED CONCRETE EDGES TO INCLUDE 3/4" CHAMFER.



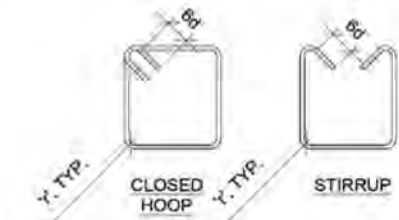
**WALL REVEAL** (7)  
SCALE: NONE

1. CAST REVEAL WHERE INDICATED ON OTHER DETAILS.
2. WALL REINFORCING IS CONTINUOUS THROUGH JOINT.
3. CAULK AS INDICATED BY OTHER DETAILS.

REBAR LAP SCHEDULE IN CONCRETE, UNLESS NOTED OTHERWISE	
BAR #	LAP, L <sub>s</sub>
W.W.F.	12"
#3	12"
#4	19"
#5	24"
#6	29"
#7	42"
#8	48"

- NOTE:**
1. GRADE 60 REINF.,  $f_c = 4000$  PSI
  2. \*USE LAP LENGTHS SHOWN IN THIS SCHEDULE, UNLESS NOTED OTHERWISE ON THESE DRAWINGS.
  3. FOR BEAM OR FOOTING TOP BARS AND WALL HORIZONTAL BARS, MULTIPLY THE ABOVE LAP LENGTHS BY 1.3
  4. INDICATED ON DRAWINGS AS L<sub>s</sub>
  5. REINFORCEMENT SHALL BE HOOKED AT DISCONTINUOUS ENDS (TOP OF OPENINGS, TOP OF WALLS, CORNERS, ETC.)

**REBAR DETAILS** (8)  
SCALE: NONE



**NOTE:**  
DO NOT FIELD BEND REINFORCEMENT EMBEDDED IN CONCRETE WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

BEND RADIUS, 'Y'		
BAR SIZE	STD. HKS. & OFFSETS	CROSS-TIES, HOOPS, & STIRRUPS
#3 - #6	3d	2d
#6 - #8	3d	N/A
#9 - #11	4d	N/A
#14 & #18	5d	N/A

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DATE: APRIL 2017  
DRAWN BY: G. LESQFSKI  
PROJECT NO.: 15207  
CHECKED BY: K. JENSEN, PE  
FILE: S-103

**PROJECT TITLE**  
Jocko River Trout Hatchery  
Raceway Replacement  
Arlee, Montana

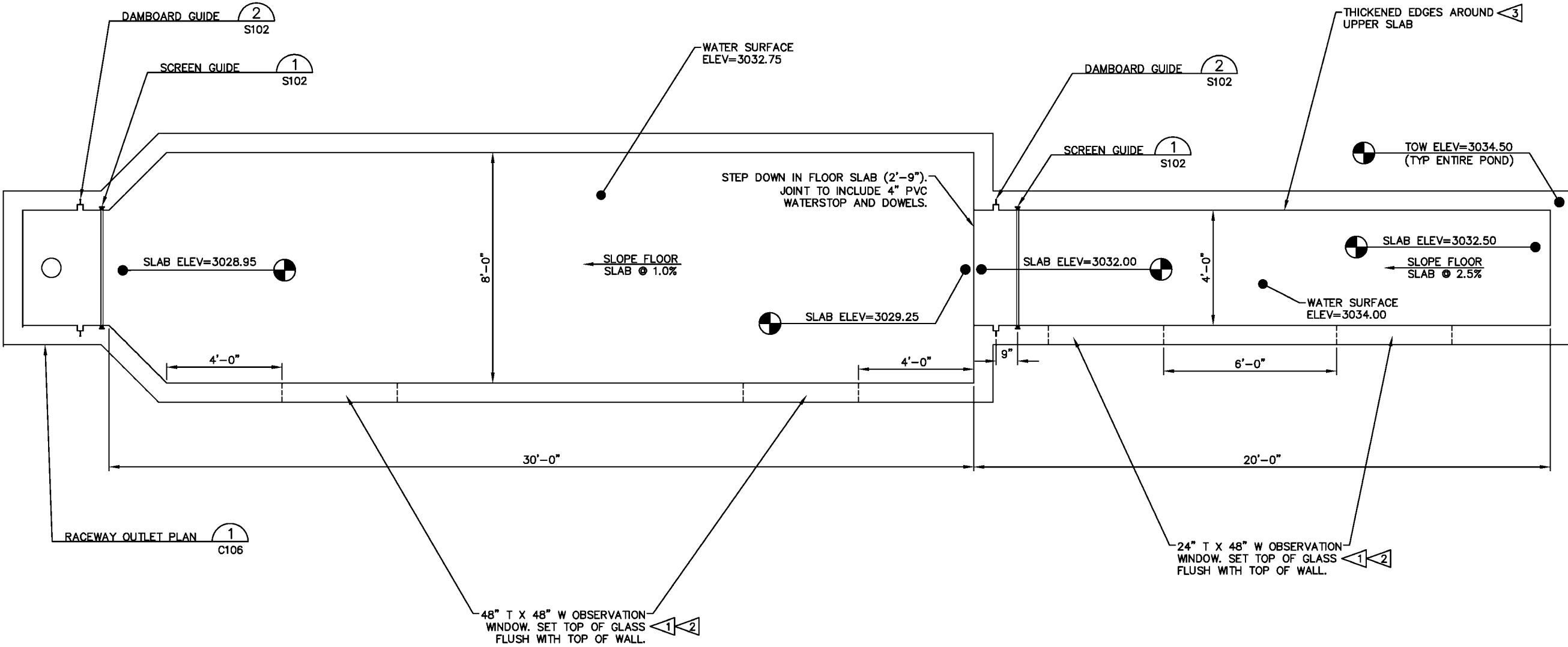
**SHEET TITLE**  
GENERAL  
STRUCTURAL  
DETAILS

**SHEET**  
**S103**  
OF



NOTES:

1. CONSTRUCT OBSERVATION WINDOWS OF 3/4" CLEAR TEMPERED LAMINATED GLASS, MADE UP OF TWO LAYERS OF 3/8" CLEAR TEMPERED GLASS WITH A 0.060" VINYL INNER LAYER. WINDOWS SHALL INCLUDE AN ALUMINUM OR STAINLESS STEEL FRAME AROUND THREE SIDES, CAST INTO THE CONCRETE WALL. FRAME TO INCLUDE 3" LONG HEADED ANCHOR STUDS (OR SIMILAR) AT 12" ON CENTER AROUND THE THREE EMBEDDED SIDES, TO ANCHOR FRAME INTO CONCRETE WALL. ALL JOINTS BETWEEN THE GLASS AND FRAME, BOTH WET SIDE AND DRY SIDE, SHALL BE SEALED TO BE WATERTIGHT WITH A SEALANT THAT IS COMPATIBLE WITH THE GLASS AND METAL FRAME, AND IS FORMULATED AND INTENDED FOR CONSTANT WATER IMMERSION (SONOLASTIC POLYSULFIDE SEALANT, OR EQUAL). WINDOW SUPPLIER REFERENCE: VALLEY GLASS OF KALISPELL, MATT HARTLEY, 406-257-9200.
2. WINDOWS TO INCLUDE SMOOTH METAL CAP (ALUMINUM OR STAINLESS STEEL).
3. CONSTRUCT UPPER SLAB WITH THICKENED EDGES, SUCH THAT BOTTOM OF THICKENED EDGES MATCHES BOTTOM ELEVATION OF LOWER SLAB. THICKENED EDGE TO BE 8" WIDE MINIMUM AT BOTTOM, AND INCLUDE (4) #4 BARS, CONTINUOUS.
4. ALL SHOW POND CONCRETE TO BE COLORED USING AN INTEGRAL COLORING ADMIXTURE. USE DAVIS COLORS POWDER PIGMENT "OMAHA TAN" (#5084) OR SOLOMON COLORS "CANVAS" (#306), DOSED AT ONE POUND PER SACK OF CEMENT. BOTH PRODUCTS ARE AVAILABLE FROM MACON SUPPLY, INC.



**SHOW POND STRUCTURAL PLAN**  
SCALE: 1"=2'-0"

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PROJECT TITLE  
**Jocko River Trout Hatchery  
Raceway Replacement  
Arlee, Montana**

SHEET TITLE  
**SHOW POND  
STRUCTURAL PLAN**

SHEET  
**S201**  
OF

[illegible]

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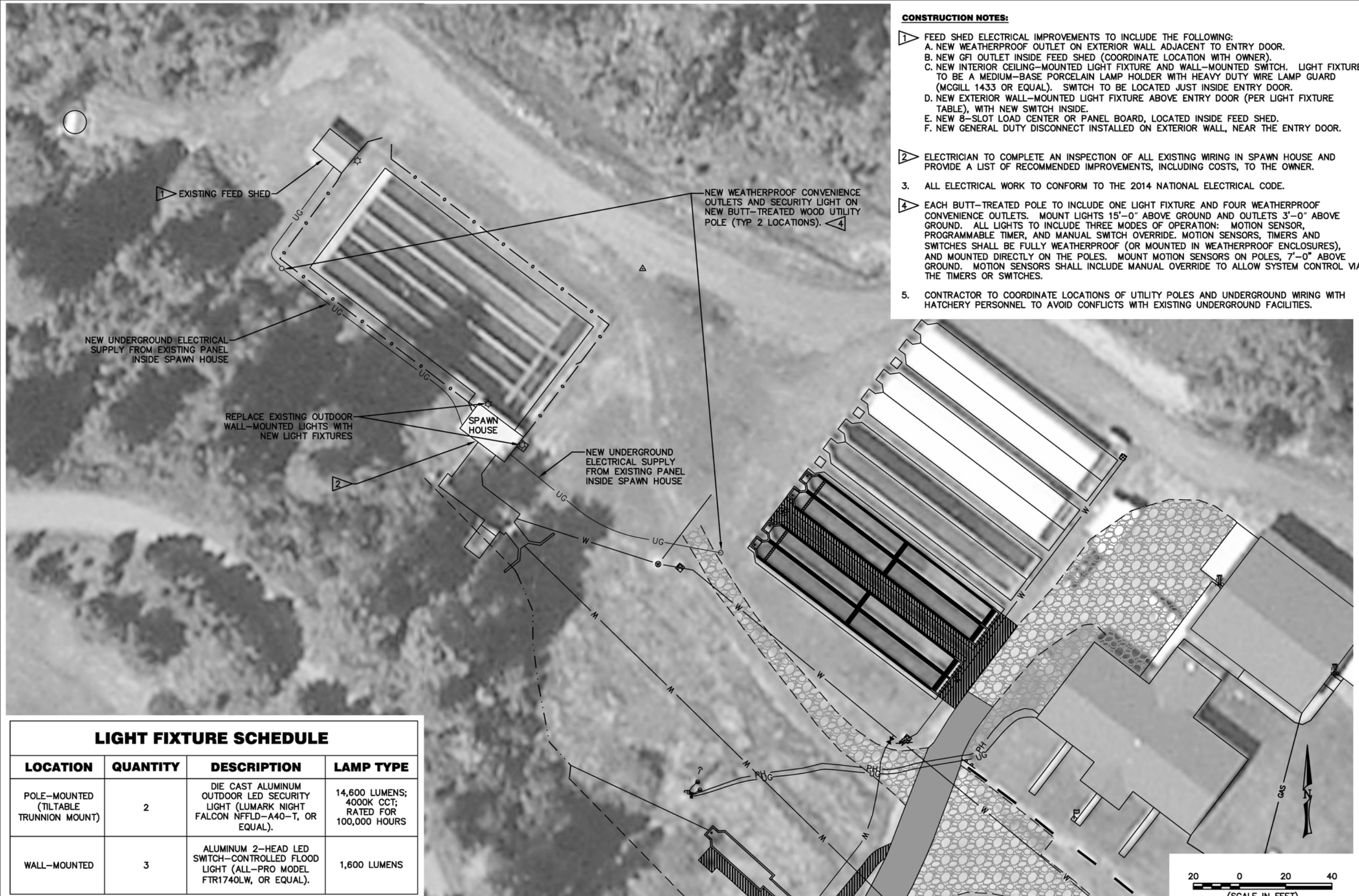
**Jocko River Trout Hatchery  
Raceway Replacement**  
*Arlee, Montana*

**ELECTRICAL PLAN**

SHEET  
**E101**  
OF

**CONSTRUCTION NOTES:**

1. FEED SHED ELECTRICAL IMPROVEMENTS TO INCLUDE THE FOLLOWING:
  - A. NEW WEATHERPROOF OUTLET ON EXTERIOR WALL ADJACENT TO ENTRY DOOR.
  - B. NEW GFI OUTLET INSIDE FEED SHED (COORDINATE LOCATION WITH OWNER).
  - C. NEW INTERIOR CEILING-MOUNTED LIGHT FIXTURE AND WALL-MOUNTED SWITCH. LIGHT FIXTURE TO BE A MEDIUM-BASE PORCELAIN LAMP HOLDER WITH HEAVY DUTY WIRE LAMP GUARD (MCGILL 1433 OR EQUAL). SWITCH TO BE LOCATED JUST INSIDE ENTRY DOOR.
  - D. NEW EXTERIOR WALL-MOUNTED LIGHT FIXTURE ABOVE ENTRY DOOR (PER LIGHT FIXTURE TABLE), WITH NEW SWITCH INSIDE.
  - E. NEW 8-SLOT LOAD CENTER OR PANEL BOARD, LOCATED INSIDE FEED SHED.
  - F. NEW GENERAL DUTY DISCONNECT INSTALLED ON EXTERIOR WALL, NEAR THE ENTRY DOOR.
2. ELECTRICIAN TO COMPLETE AN INSPECTION OF ALL EXISTING WIRING IN SPAWN HOUSE AND PROVIDE A LIST OF RECOMMENDED IMPROVEMENTS, INCLUDING COSTS, TO THE OWNER.
3. ALL ELECTRICAL WORK TO CONFORM TO THE 2014 NATIONAL ELECTRICAL CODE.
4. EACH BUTT-TREATED POLE TO INCLUDE ONE LIGHT FIXTURE AND FOUR WEATHERPROOF CONVENIENCE OUTLETS. MOUNT LIGHTS 15'-0" ABOVE GROUND AND OUTLETS 3'-0" ABOVE GROUND. ALL LIGHTS TO INCLUDE THREE MODES OF OPERATION: MOTION SENSOR, PROGRAMMABLE TIMER, AND MANUAL SWITCH OVERRIDE. MOTION SENSORS, TIMERS AND SWITCHES SHALL BE FULLY WEATHERPROOF (OR MOUNTED IN WEATHERPROOF ENCLOSURES), AND MOUNTED DIRECTLY ON THE POLES. MOUNT MOTION SENSORS ON POLES, 7'-0" ABOVE GROUND. MOTION SENSORS SHALL INCLUDE MANUAL OVERRIDE TO ALLOW SYSTEM CONTROL VIA THE TIMERS OR SWITCHES.
5. CONTRACTOR TO COORDINATE LOCATIONS OF UTILITY POLES AND UNDERGROUND WIRING WITH HATCHERY PERSONNEL TO AVOID CONFLICTS WITH EXISTING UNDERGROUND FACILITIES.



## LIGHT FIXTURE SCHEDULE

LOCATION	QUANTITY	DESCRIPTION	LAMP TYPE
POLE-MOUNTED (TILTABLE TRUNNION MOUNT)	2	DIE CAST ALUMINUM OUTDOOR LED SECURITY LIGHT (LUMARK NIGHT FALCON NFFLD-A40-T, OR EQUAL).	14,600 LUMENS; 4000K CCT; RATED FOR 100,000 HOURS
WALL-MOUNTED	3	ALUMINUM 2-HEAD LED SWITCH-CONTROLLED FLOOD LIGHT (ALL-PRO MODEL FTR1740LW, OR EQUAL).	1,600 LUMENS

## ELECTRICAL PLAN

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(SCALE IN FEET)